



Service Bulletin

Bulletin No.: 25-NA-147

Date: June, 2025

TECHNICAL

Subject: Stalling, No Start Condition, Malfunction Indicator Lamp (MIL) Illuminated - DTCs P0089, P00C6, P228C, and/or P2C1F Set

This bulletin replaces PIP6003E. Please discard PIP6003E.

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission :
		from	to	from	to		
Chevrolet	Equinox	2023	2024			1.5 LSD	
GMC	Terrain						

Involved Region or Country	North America, Middle East
Condition	<p>Some customers may comment on one or more of the following conditions:</p> <ul style="list-style-type: none"> • No start condition • Stalling • MIL illuminated <p>Some technicians may find one or more DTCs set:</p> <ul style="list-style-type: none"> • P0089: Fuel Pressure Regulator Performance • P00C6: Fuel Rail Pressure Low During Engine Cranking • P228C: Fuel Pressure Regulator Control Performance - Low Pressure • P2C1F: Fuel Pressure Regulator Performance - Low Pressure During Cold Start
Cause	This condition may be caused by a potential high-pressure pump and injector internal concern.
Correction	<p>Program the ECM to the latest update available and retest. If concern duplicated/codes reset: Note: If P2C1F is set with other DTC's please review and follow document ID 6286862.</p> <ul style="list-style-type: none"> ⇒ Confirm that the fuel feed line engine is properly oriented by referring to <i>Fuel Feed Front Pipe Replacement in SI</i>. ⇒ Verify fuel Hz reading and physical sample condition using SI document ID 5908954 and correct as necessary. <p>Using SI document ID: 6275090:</p> <ul style="list-style-type: none"> ⇒ Perform a cold engine AFIT test and document results. ⇒ If the injectors fail AFIT test, replace suspected injector(s). Refer to <i>Fuel Injector Replacement in SI</i>. <p>To test a cold engine using the AFIT tool please perform the following:</p> <ul style="list-style-type: none"> ⇒ When the screen appears asking if the engine will start and run, select "no". This will bypass the 60 second run time eliminating the possibility of the engine or fuel system warming up so a true cold engine test can be performed. ⇒ Perform a hot engine AFIT test and document results. If the injectors fail AFIT test, replace suspected injector(s).

- ⇒ Contact TAC to assist in interpreting results as needed.
 - ⇒ If the injectors pass AFIT test, review and replace the High Pressure fuel pump and one time use parts referring to *Fuel Pump Replacement in SI* following ALL steps and utilizing all required TOOLS.
- Inspect the catalytic converter for any concerns from an over fueling condition.
After repair, complete a full drive cycle at a minimum test drive of 10 miles and recheck for concerns.

Important: Service agents must comply with all International, Federal, State, Provincial, and/or Local laws applicable to the activities it performs under this bulletin, including but not limited to handling, deploying, preparing, classifying, packaging, marking, labeling, and shipping dangerous goods. In the event of a conflict between the procedures set forth in this bulletin and the laws that apply to your dealership, you must follow those applicable laws.

Warranty Information

For vehicles repaired under warranty, use:

Labor Operation	Description	Labor Time
2810075	Engine Control Module Reprogramming with SPS	See Labor Time Guide
4021890	Fuel pump replacement	
4022330	Fuel injector replacement	

Version	1
Modified	Released June 02, 2025

